

Online Supplementary Table 1: Comparison in temporal trends of vital signs, biomarkers, respiratory and other organ support

	TT/A		TT/D		nTT/A		nTT/D		p-values
PEEP	Mean (SD)	Median (min-max)	Mean (SD)	Median (min-max)	Mean (SD)	Median (min-max)	Mean (SD)	Median (min-max)	
0	10.4 (2.6)	10 (5-15)	12.3 (2.6)	12 (10-15)	9.6 (1.7)	10 (8-12)	10.6 (1.5)	10 (10-14)	0.036
7	10.4 (2.5) ^c	10 (6-15)	11 (2) ^{abc}	10 (10-14)	8.1 (2.6) ^d	8 (5-12)	8.6 (2.2) ^c	8 (6-12)	<0.0001
10	10 (2.2) ^c	10 (7-15)	11.5 (1.9)	11 (10-14)	7.6 (2.4) ^{ab}	8 (5-12)	9.6 (2.7) ^c	10 (5-12)	0.005
Last	9.3 (2.4) ^c	8 (5-15)	10.8 (2.2) ^c	10 (9-14)	6.9 (1.7) ^{abd}	7 (5-10)	11.1 (1.1) ^c	12 (10-12)	0.017
FiO2									
0	0.5 (0.2) ^c	0.4 (0.3-1)	0.5 (0.1)	0.6 (0.5-0.6)	0.4 (0.1) ^{bd}	0.4 (0.3-0.7)	0.5 (0.2) ^c	0.4 (0.4-1)	<0.0001
7	0.6 (0.2) ^c	0.5 (0.3-1)	0.6 (0.2) ^c	0.6 (0.4-0.8)	0.4 (0.1) ^{abd}	0.4 (0.3-0.7)	0.4 (0.1) ^c	0.5 (0.2-0.6)	<0.0001
10	0.5 (0.2) ^c	0.5 (0.3-1)	0.6 (0.1)	0.6 (0.5-0.7)	0.4 (0.2) ^{bd}	0.3 (0.2-0.9)	0.5 (0.1) ^c	0.5 (0.4-0.6)	<0.0001
Last	0.6 (0.5)	0.5 (0.3-3)	0.7 (0.1)	0.7 (0.6-0.8)	0.4 (0.2)	0.3 (0.2-0.9)	0.7 (0.2) ^c	0.6 (0.4-1)	0.004
PaO2									
0	8.2 (1.3) ^c	8.4 (5.4-10.9)	6.5 (1) ^c	6.5 (5.4-7.8)	10.1 (3.7) ^{abd}	8.9 (8.4-21.2)	9.4 (1.1) ^c	9.3 (8.4-11.5)	<0.0001
7	10.5 (2) ^d	10.8 (6.5-13.9)	9.9 (2.6) ^d	10.3 (6.6-12.5)	8.6 (1.4)	8.7 (6.2-11.4)	8.1 (0.6) ^{ab}	8.2 (7.1-9)	0.001
10	9.7 (2.1)	9.7 (6.9-15.7)	8.6 (0.9)	8.7 (7.7-9.4)	9.6 (1.8)	9.1 (6.6-12.5)	7.7 (0.9)	7.7 (6.7-8.6)	NS
Last	10.4 (1.8) ^d	10.2 (7.6-14)	8.7 (0.9) ^d	8.5 (7.9-10)	9.6 (1.5)	9.9 (7.4-11.6)	9 (1.8) ^{bc}	8.6 (6.7-12.7)	NS
PF Ratio									
0	149.5 (50.4) ^c	146.1 (40.7-247)	92.3 (17.3) ^d	93.9 (73.6-107.7)	185.3 (60.1) ^{abd}	178.9 (101.1-318.3)	149.1 (40.8) ^c	157.5 (86.3-204.5)	<0.0001
7	151.5 (48) ^c	158 (48.5-256.3)	139.4 (71.4)	136.6 (70.7-213.8)	180.1 (56.4) ^{bd}	187.3 (92.7-267)	155.1 (53) ^c	136.2 (117.7-264.4)	<0.0001
10	152.9 (69.9) ^c	145.5 (64.8-420.3)	114.3 (24.1) ^c	114.1 (88.9-140.4)	239.5 (85.9) ^{abd}	251.3 (72.3-348)	119 (33.8) ^c	107.5 (84.3-178.1)	<0.0001
Last	175.1 (80) ^{cd}	157.3 (29.1-349.3)	98.2 (13.8) ^c	100.7 (79.1-112.1)	221.5 (81.3) ^{abd}	247.5 (72.3-309.7)	108.5 (33.1) ^{bc}	95.3 (70.5-166.9)	0.006
CRP									
0	213.9 (100.3) ^c	193 (46-354)	245 (52.3)	251 (183-295)	145.5 (70.5) ^b	124 (45-245)	166.9 (64.5)	192 (40-229)	0.004
7	223 (117.8) ^c	205 (40-445)	259.3 (61.8) ^c	266 (189-316)	215.6 (125.4) ^{abd}	229 (21-398)	274.7 (94.8) ^c	274 (168-420)	<0.0001
10	165.6 (115.6)	138 (7-417)	214.3 (96.2)	209 (114-325)	139.6 (135.2)	86 (38-440)	286.1 (62.3)	303 (183-341)	0.02
Last	170.4 (118.5) ^d	124 (10-407)	208 (66.9)	191 (154-296)	105.6 (82) ^d	78 (29-296)	301.9 (34.7) ^{bc}	292 (256-348)	0.008
Ferritin									
0	2212 (2806.5)	1296 (216-12535)	3430.3 (2506.3)	3403.5 (1070-5844)	1075.7 (654)	936 (128-2468)	1685.1 (1333)	1535 (186-3663)	NS
7	1735.9 (1049.2)	1653 (394-4305)	3672.3 (3513)	2363 (1099-8864)	1823.9 (1675.3)	1401 (147-4919)	2572.6 (3702.4)	1285 (156-10805)	NS
10	2601.1 (4672.4)	1298 (306-25087)	3026.3 (3769.1)	1353 (741-8658)	1428.8 (1102.9)	1101 (147-3863)	1811.3 (1621.1)	1359 (210-4553)	NS
Last	1907.8 (1420.6)	1713 (444-6125)	1339.5 (344.5)	1241.5 (1039-1836)	1057.6 (540.9)	1101 (147-1836)	1968.9 (1760)	1098 (210-4553)	NS
D-Dimer									
0	8.8 (13.8)	4.2 (0.3-50.8)	2.7 (1.7)	2.5 (1.1-4.4)	4.6 (9.4)	1 (0.3-30.4)	3.8 (5)	2.1 (0.8-14.9)	0.001
7	16.2 (24.1) ^c	5.5 (1.1-80)	16.4 (6)	16.3 (10.2-22.8)	15 (23.2) ^{bd}	7.9 (0.9-80)	44.1 (37.7) ^c	52.6 (1.2-80)	0.001
10	10.5 (12)	6.8 (1.2-55.7)	26 (10.6)	23.3 (16.4-41.1)	15.8 (21.9)	8.3 (1.4-76.8)	28.6 (35.3)	9.3 (2.6-80)	0.029
Last	14.9 (14.2)	10.2 (0.9-59)	13 (19.4)	4.3 (1.3-41.9)	19.9 (24.8)	8.3 (1.4-76.8)	21.7 (26)	13.2 (6.3-80)	NS
Temperature									
0	38 (1.2) ^c	38 (36.4-40.4)	37.2 (0.6)	37.3 (36.3-37.8)	38.9 (0.8) ^b	39.2 (37.2-39.9)	38.8 (0.9) ^b	39 (37-39.8)	<0.0001
7	37.8 (1.1)	37.4 (36.2-40.1)	37.5 (0.5)	37.5 (36.8-38.1)	38.3 (0.9)	38.2 (37-40.2)	38.2 (1.1)	38.2 (36.5-39.4)	0.027
10	37.7 (1) ^d	37.7 (35.8-39.3)	37.7 (0.4)	37.7 (37.2-38.2)	37.9 (0.8)	37.8 (36.6-39.1)	38.8 (1.2) ^b	38.6 (36.6-40.2)	NS
Last	37.6 (0.9)	37.6 (36.3-39.3)	38.7 (0.7) ^c	39 (37.6-39.2)	37.6 (0.9) ^{cd}	37.8 (36.6-39.2)	38.6 (1.4) ^c	38.7 (36-40.2)	NS
Vasopressors	n (%)		n (%)		n (%)		n (%)		
0	46 (57.5)		4 (57.1)		29 (56.9)		24 (72.7)		NS

7	62 (77.5)*&\$	2 (28.6)^\$	5 (10)^\$	16 (51.6)^*&	0.001
10	25 (31.3)	2 (28.6)	2 (11.1)	5 (29.4)	NS
Last	26 (32.5)*&	3 (42.9)^\$	2 (25)^\$	20 (62.5)*&	<0.0001
RRT					
0	5 (6.3)	1 (14.3)	0 (0)	1 (3)	NS
7	20 (25.0)	2 (28.6)	6 (12)	9 (29)	NS
10	25 (31.3)	2 (28.6)	4 (22.2)	6 (35.3)	NS
Last	25 (31.3)*&\$	2 (28.6)^\$	6 (50)^	11 (34.4)^*	0.046
ECMO					
0	15 (18.8)*&\$	2(28.6)^	0 (0) ^	0 (0) ^	<0.0001
7	22 (27.5)*&\$	4(57.1)^	3 (6)^	4 (12.9)^	0.008
10	24 (30.0)	4 (57.1)	4 (22.2)	4 (23.5)	NS
Last	23 (28.8)*&\$	4 (57.1)^	5 (50)^	4 (12.5)^	0.024

Multiple comparison: repeated measures ANOVA to test for within-subject differences. If Mauchly's test for sphericity violated, the Greenhouse-Geisser and Huynh-Feldt adjustments corrections applied. The Scheffe multiple range test was used post hoc to identify which time points were significantly different from the others included in this comparison. In case of dichotomous variables Cochran Q statistic was calculated. P <0.05 was considered statistically significant.

nTT/A=no tracheostomy/extubated/alive, nTT/D= no tracheostomy/dead, NS=non-significant

a= significant compared to TT/A

b= significant compared to TT/D

c= significant compared to nTT/A

d= significant compared to nTT/D